

Table SII. Downregulated genes in osteoarthritis vs. normal samples.

Gene symbol	logFC	t	adj.P.Val	B
DDIT3	-2.685640821	-15.726052470	6.79x10 ⁻¹⁴	30.32636990
MAFF	-3.071609542	-15.598748680	6.79x10 ⁻¹⁴	30.08650547
PFKFB3	-2.294276515	-13.451712180	5.11x10 ⁻¹²	25.75256778
ETS2	-2.037427080	-12.301066350	4.77x10 ⁻¹¹	23.18935973
KLF10	-2.244238528	-12.203930600	5.05x10 ⁻¹¹	22.96480512
ADM	-4.461946149	-10.922771980	1.13x10 ⁻⁹	19.87977381
SESN2	-3.018295936	-10.769553110	1.49x10 ⁻⁹	19.49524662
HILPDA	-3.691435207	-10.589389450	2x10 ⁻⁹	19.03879724
MTFP1	-2.567138865	-10.572979440	2x10 ⁻⁹	18.99699091
CISH	-3.179782298	-10.538077030	2x10 ⁻⁹	18.90794482
LOC143666	-3.181404415	-10.369405790	2.73x10 ⁻⁹	18.47515509
JMJD6	-1.316351485	-10.262695650	3.31x10 ⁻⁹	18.19924466
MYO7A	-2.922005492	-10.175248910	3.92x10 ⁻⁹	17.97192651
GADD45B	-2.800484850	-10.127793020	4.18x10 ⁻⁹	17.84810693
UBC	-1.652969140	-10.029859090	4.86x10 ⁻⁹	17.59156548
SLC2A1	-2.169120957	-9.998609956	5.02x10 ⁻⁹	17.50941925
PIM2	-2.295573256	-9.942903148	5.29x10 ⁻⁹	17.36263470
ZNF395	-1.995591228	-9.902783061	5.65x10 ⁻⁹	17.25664669
IER2	-2.496453877	-9.803231524	7.11x10 ⁻⁹	16.99266660
GPT2	-1.805257129	-9.736442943	7.77x10 ⁻⁹	16.81477613
TUBB4B	-1.875758479	-9.736357141	7.77x10 ⁻⁹	16.81454719
DDIT4	-4.121063148	-9.687607866	8.36x10 ⁻⁹	16.68430524
IRS2	-1.989519426	-9.670484709	8.46x10 ⁻⁹	16.63847818
JUN	-3.035091167	-9.523057848	1.23x10 ⁻⁸	16.24220903
DHRS13	-2.691540223	-9.445280274	1.48x10 ⁻⁸	16.03192214
DHRS3	-1.831993106	-9.368339880	1.68x10 ⁻⁸	15.82306838
HK2	-2.570293205	-9.239115463	2.33x10 ⁻⁸	15.47044252
ING1	-1.668368844	-9.232682053	2.33x10 ⁻⁸	15.45282687
TOB1	-2.729397896	-9.065043265	3.37x10 ⁻⁸	14.99180688
FAM84B	-2.008726058	-9.049443596	3.44x10 ⁻⁸	14.94871167
ERRFI1	-2.442211768	-8.846760767	5.74x10 ⁻⁸	14.38580407
NCK1	-1.133013234	-8.768357158	6.89x10 ⁻⁸	14.16658451
KBTBD11	-1.720444231	-8.752138936	7x10 ⁻⁸	14.12113643
RNF39	-2.388719111	-8.747939767	7x10 ⁻⁸	14.10936353
C19orf35	-3.328391684	-8.723269955	7.18x10 ⁻⁸	14.04015182
CDKN1A	-2.906419140	-8.680649390	7.84x10 ⁻⁸	13.92039119
AKAP12	-1.796706229	-8.629883164	8.76x10 ⁻⁸	13.77743318
NXT1	-1.397940387	-8.621591745	8.8x10 ⁻⁸	13.75405274
CEP95	-1.346713376	-8.588528095	9.36x10 ⁻⁸	13.66073045
HMGB2	-1.684884745	-8.554622364	9.97x10 ⁻⁸	13.56488531
SNAPC1	-1.266444257	-8.521037517	1.08x10 ⁻⁷	13.46980214

VEGFA	-2.604940687	-8.491579236	1.16x10 ⁻⁷	13.38628350
CTH	-2.054886156	-8.444588986	1.29x10 ⁻⁷	13.25283151
ELMSAN1	-1.538989785	-8.444143502	1.29x10 ⁻⁷	13.25156501
ATF3	-3.893858757	-8.428524844	1.33x10 ⁻⁷	13.20714560
SLC6A8	-1.689165011	-8.392555895	1.46x10 ⁻⁷	13.10473366
PIM3	-1.762256277	-8.351717702	1.57x10 ⁻⁷	12.98826217
PPP1R15A	-2.101076402	-8.342347165	1.59x10 ⁻⁷	12.96150797
CCNL1	-1.756781568	-8.302471894	1.76x10 ⁻⁷	12.84753722
BHLHE40	-2.346793745	-8.239538110	2.01x10 ⁻⁷	12.66726425
GRPEL1	-1.286661672	-8.210299137	2.14x10 ⁻⁷	12.58334570
SLC38A3	-2.493029199	-8.209182382	2.14x10 ⁻⁷	12.58013847
KLF11	-1.274383057	-8.087434772	2.98x10 ⁻⁷	12.22959335
FAM210A	-1.384895726	-8.057077511	3.12x10 ⁻⁷	12.14191316
PMS2CL	-1.234920122	-8.033517429	3.23x10 ⁻⁷	12.07379092
IRF2BP2	-1.116027792	-8.008095836	3.44x10 ⁻⁷	12.00021399
CECR5	-1.227140704	-7.957953163	3.86x10 ⁻⁷	11.85486942
SOX9	-1.961654844	-7.949786397	3.91x10 ⁻⁷	11.83116984
LOC399715	-2.494056607	-7.855954232	4.96x10 ⁻⁷	11.55833299
ITPRIP	-2.349131921	-7.788099887	5.96x10 ⁻⁷	11.36042234
KLF4	-1.461384537	-7.763505400	6.28x10 ⁻⁷	11.28856349
SNHG15	-1.106729086	-7.760523161	6.28x10 ⁻⁷	11.27984569
MXI1	-1.744767107	-7.750922378	6.4x10 ⁻⁷	11.25177381
LOC100507217	-1.197589341	-7.726912640	6.82x10 ⁻⁷	11.18152803
SAP30	-1.618903451	-7.722396201	6.84x10 ⁻⁷	11.16830730
HERC5	-2.577159476	-7.675863971	7.6x10 ⁻⁷	11.03197001
CEBPG	-1.459840707	-7.668794775	7.6x10 ⁻⁷	11.01123762
FAM166A	-3.881579106	-7.668724311	7.6x10 ⁻⁷	11.01103093
BCOR	-1.596278777	-7.652824205	7.83x10 ⁻⁷	10.96438021
ELF3	-3.157418323	-7.611729893	8.63x10 ⁻⁷	10.84368835
RRAGD	-1.313937428	-7.565491880	9.59x10 ⁻⁷	10.70768251
JUNB	-1.716921186	-7.498925998	1.14x10 ⁻⁶	10.51150555
RNU4ATAC	-3.222986932	-7.467909423	1.24x10 ⁻⁶	10.41994664
STX11	-1.999164202	-7.460254953	1.26x10 ⁻⁶	10.39733671
CCNG2	-1.327403477	-7.389478616	1.49x10 ⁻⁶	10.18800952
EGLN3	-1.720708361	-7.347783766	1.61x10 ⁻⁶	10.06447200
CSRNP1	-2.989675298	-7.317241332	1.72x10 ⁻⁶	9.97387599
FNBP1	-1.048660202	-7.299146466	1.8x10 ⁻⁶	9.92016229
PELO	-1.121334956	-7.283963668	1.86x10 ⁻⁶	9.87507014
CDKN1B	-1.187314661	-7.245773971	2.08x10 ⁻⁶	9.76155781
SPSB2	-1.373945441	-7.235647822	2.13x10 ⁻⁶	9.73143800
AVPI1	-2.009195651	-7.226094514	2.18x10 ⁻⁶	9.70301388
HERPUD1	-1.395471170	-7.220645839	2.2x10 ⁻⁶	9.68679879
ST3GAL5	-1.809506799	-7.205116239	2.27x10 ⁻⁶	9.64056909
SLC47A1	-1.782287439	-7.172655570	2.45x10 ⁻⁶	9.54387102

ELL3	-1.052621259	-7.149395784	2.58x10 ⁻⁶	9.47452699
SIK1	-3.052436382	-7.096245559	2.99x10 ⁻⁶	9.31590304
H1FX	-1.613789428	-7.095341227	2.99x10 ⁻⁶	9.31320212
NOD2	-2.353520434	-7.093135881	2.99x10 ⁻⁶	9.30661525
GPRC5A	-1.997888827	-6.990933905	4.02x10 ⁻⁶	9.00094071
C10orf10	-2.233822508	-6.987352970	4.04x10 ⁻⁶	8.99021597
KLF2	-2.339346031	-6.973955998	4.16x10 ⁻⁶	8.95008410
NFIL3	-2.876824880	-6.960544166	4.29x10 ⁻⁶	8.90989435
FOSL2	-2.136195040	-6.945897323	4.43x10 ⁻⁶	8.86598866
BCL7A	-1.602051026	-6.943509902	4.44x10 ⁻⁶	8.85883059
STC2	-2.607000781	-6.935210369	4.5x10 ⁻⁶	8.83394334
RORC	-1.778367510	-6.932934209	4.5x10 ⁻⁶	8.82711711
HIP1R	-1.549879083	-6.927204494	4.56x10 ⁻⁶	8.80993195
GSE1	-1.363009130	-6.918430478	4.65x10 ⁻⁶	8.78361146
ALDH1L1	-2.351340463	-6.916394088	4.65x10 ⁻⁶	8.77750186
PTPRU	-1.110479260	-6.915491998	4.65x10 ⁻⁶	8.77479531
MKNK2	-1.774175177	-6.910940903	4.69x10 ⁻⁶	8.76113971
BHLHE41	-1.847832897	-6.861535253	5.34x10 ⁻⁶	8.61280423
N4BP2L1	-1.552451930	-6.851498161	5.48x10 ⁻⁶	8.58264832
L3MBTL4	-2.235059076	-6.838978308	5.65x10 ⁻⁶	8.54502355
SASH1	-1.235679986	-6.807824517	6.11x10 ⁻⁶	8.45135465
FOXD2-AS1	-1.730554999	-6.767600320	6.84x10 ⁻⁶	8.33032097
IER5	-1.974188570	-6.738371574	7.38x10 ⁻⁶	8.24230849
FOXP2	-1.081646928	-6.729383719	7.51x10 ⁻⁶	8.21523407
SNHG1	-1.053078822	-6.727677812	7.51x10 ⁻⁶	8.21009476
MYLIP	-1.367403872	-6.724398030	7.52x10 ⁻⁶	8.20021341
LOC100272217	-2.165518637	-6.704901012	7.82x10 ⁻⁶	8.14145938
RYBP	-1.162809722	-6.697969685	7.95x10 ⁻⁶	8.12056649
KLF5	-1.799987662	-6.689342582	8.1x10 ⁻⁶	8.09455816
MLXIP	-1.377362959	-6.686186543	8.13x10 ⁻⁶	8.08504249
RELT	-1.841831312	-6.672765652	8.35x10 ⁻⁶	8.04457123
TESK2	-1.013530038	-6.663858395	8.54x10 ⁻⁶	8.01770535
NEAT1	-1.476948360	-6.654234330	8.76x10 ⁻⁶	7.98867243
PROSER2	-1.409594781	-6.649275467	8.86x10 ⁻⁶	7.97371101
H3F3B	-1.115113025	-6.638049531	9.07x10 ⁻⁶	7.93983614
PIGA	-2.038379598	-6.637134314	9.07x10 ⁻⁶	7.93707412
PDK1	-1.487170863	-6.629656566	9.24x10 ⁻⁶	7.91450541
SLC3A2	-1.369969446	-6.627916399	9.25x10 ⁻⁶	7.90925295
MYZAP	-2.668466369	-6.619677814	9.39x10 ⁻⁶	7.88438367
SLC2A3	-1.833054395	-6.618358581	9.39x10 ⁻⁶	7.88040105
NDRG1	-1.219114668	-6.608102891	9.57x10 ⁻⁶	7.84943708
DUSP2	-4.245931178	-6.602288606	9.67x10 ⁻⁶	7.83188012
CLDN5	-3.497697963	-6.601979559	9.67x10 ⁻⁶	7.83094687
LONRF3	-3.012964102	-6.597537484	9.71x10 ⁻⁶	7.81753221

BTG2	-2.389314168	-6.569269732	1.02x10 ⁻⁵	7.73214236
CTIF	-1.070138545	-6.555006362	1.07x10 ⁻⁵	7.68904095
KLF9	-1.792162666	-6.543792752	1.1x10 ⁻⁵	7.65514834
RASSF7	-2.010430149	-6.511893972	1.19x10 ⁻⁵	7.55870275
KIAA1683	-2.498850042	-6.509684259	1.2x10 ⁻⁵	7.55201994
MPP2	-1.625408249	-6.506103300	1.21x10 ⁻⁵	7.54118961
TLE3	-1.204078629	-6.493820929	1.24x10 ⁻⁵	7.50403807
FHDC1	-1.704969037	-6.489816107	1.25x10 ⁻⁵	7.49192286
KIT	-3.415053915	-6.461269805	1.34x10 ⁻⁵	7.40554535
DNAJB9	-1.246892072	-6.437818630	1.42x10 ⁻⁵	7.33455888
ANGPTL4	-2.600188642	-6.431237597	1.45x10 ⁻⁵	7.31463406
ITPKC	-1.894022629	-6.405929492	1.55x10 ⁻⁵	7.23799467
STAC2	-2.384870377	-6.381389459	1.66x10 ⁻⁵	7.16365742
DAPK2	-1.831058348	-6.328205004	1.92x10 ⁻⁵	7.00247467
HLA-J	-1.606559362	-6.315651092	1.98x10 ⁻⁵	6.96441425
PCDH17	-3.268633458	-6.314346817	1.98x10 ⁻⁵	6.96045971
PAIP2B	-1.672631814	-6.307202962	2.01x10 ⁻⁵	6.93879870
HPN	-3.555129262	-6.299979038	2.05x10 ⁻⁵	6.91689328
PLEKHG2	-1.773747098	-6.295893245	2.07x10 ⁻⁵	6.90450303
SMCR7	-1.005432565	-6.288842765	2.11x10 ⁻⁵	6.88312111
KRBA1	-1.422962154	-6.287758358	2.11x10 ⁻⁵	6.87983230
FAM160A1	-1.569462028	-6.264600481	2.2x10 ⁻⁵	6.80959052
SOX13	-2.245220455	-6.259555007	2.23x10 ⁻⁵	6.79428470
GADD45A	-1.849495091	-6.257456221	2.24x10 ⁻⁵	6.78791766
TIPARP	-1.827176044	-6.249428197	2.29x10 ⁻⁵	6.76356213
TLN2	-1.169852656	-6.218359929	2.45x10 ⁻⁵	6.66929071
ATOX8	-1.953192874	-6.204986548	2.54x10 ⁻⁵	6.62870399
IFRD1	-1.363096911	-6.203706256	2.54x10 ⁻⁵	6.62481823
ULK1	-1.400210515	-6.193346017	2.6x10 ⁻⁵	6.59337285
BEND5	-2.164610893	-6.189574717	2.62x10 ⁻⁵	6.58192560
TTC21A	-1.272145398	-6.174117587	2.73x10 ⁻⁵	6.53500440
SPRY4	-1.648275819	-6.172147512	2.74x10 ⁻⁵	6.52902373
IFT122	-1.043004456	-6.169890293	2.74x10 ⁻⁵	6.52217126
PAK3	-2.947516307	-6.167773848	2.74x10 ⁻⁵	6.51574606
LINGO3	-3.357676627	-6.162565479	2.77x10 ⁻⁵	6.49993386
SLC43A2	-2.083061274	-6.133635843	3x10 ⁻⁵	6.41209617
ARHGEF2	-1.110779846	-6.131687069	3.01x10 ⁻⁵	6.40617864
STK32B	-1.781364652	-6.075899149	3.53x10 ⁻⁵	6.23675066
C11orf35	-2.948463600	-6.071996388	3.55x10 ⁻⁵	6.22489631
THRA	-1.312692724	-6.067527336	3.55x10 ⁻⁵	6.21132165
OPTC	-3.053648426	-6.060932540	3.59x10 ⁻⁵	6.19128964
RHOB	-1.905374970	-6.047101789	3.71x10 ⁻⁵	6.14927648
MIR4505	-3.407752646	-6.040175387	3.77x10 ⁻⁵	6.12823564
C2CD4B	-3.162877185	-6.027221022	3.86x10 ⁻⁵	6.08888198

VPS37B	-1.690686290	-6.026766134	3.86x10 ⁻⁵	6.08750007
ADPRM	-1.016431290	-6.024992358	3.87x10 ⁻⁵	6.08211144
ACADL	-2.431202155	-6.010116541	4.01x10 ⁻⁵	6.03691863
TUBA8	-1.689393382	-6.005806200	4.05x10 ⁻⁵	6.02382348
HLA-F	-1.101333633	-5.977262061	4.37x10 ⁻⁵	5.93710136
RIOK3	-1.234158461	-5.973131192	4.4x10 ⁻⁵	5.92455072
FOSL1	-2.583357553	-5.965687624	4.48x10 ⁻⁵	5.90193509
FAM43A	-2.114897745	-5.949140792	4.64x10 ⁻⁵	5.85166063
TUFT1	-1.111443413	-5.940794080	4.73x10 ⁻⁵	5.82630050
RND1	-3.949725910	-5.936294668	4.79x10 ⁻⁵	5.81262974
RNMT	-1.229430907	-5.915500831	5.01x10 ⁻⁵	5.74945091
HES1	-2.142580610	-5.908155596	5.1x10 ⁻⁵	5.72713366
GYS1	-1.485797240	-5.883053011	5.44x10 ⁻⁵	5.65086479
ALDH3A2	-1.045966961	-5.882854207	5.44x10 ⁻⁵	5.65026078
SLC5A10	-2.103780529	-5.877953600	5.51x10 ⁻⁵	5.63537161
PLD6	-1.469149166	-5.867472832	5.66x10 ⁻⁵	5.60352904
ERICH1	-1.582741331	-5.867398970	5.66x10 ⁻⁵	5.60330463
TSPYL2	-1.516252915	-5.864068358	5.71x10 ⁻⁵	5.59318573
KIF26A	-1.165990725	-5.847017683	5.93x10 ⁻⁵	5.54138436
MOAP1	-1.259347002	-5.837014126	6.03x10 ⁻⁵	5.51099375
RARA	-2.168526889	-5.805125299	6.56x10 ⁻⁵	5.41412245
RAB11FIP1	-1.019238114	-5.778978405	7.05x10 ⁻⁵	5.33470275
ELL	-1.195387292	-5.771686605	7.16x10 ⁻⁵	5.31255600
ABLIM1	-1.322684124	-5.766524030	7.24x10 ⁻⁵	5.29687665
SLC2A1-AS1	-1.777419938	-5.761501274	7.32x10 ⁻⁵	5.28162235
ARHGEF37	-1.747464374	-5.761020726	7.32x10 ⁻⁵	5.28016293
LOC100188947	-2.535870220	-5.752916855	7.44x10 ⁻⁵	5.25555209
MIR210	-2.803111915	-5.739378717	7.73x10 ⁻⁵	5.21444031
AGPAT9	-1.342738731	-5.737103837	7.77x10 ⁻⁵	5.20753242
GBP2	-1.151531488	-5.736206055	7.77x10 ⁻⁵	5.20480624
EEPD1	-1.534138724	-5.728938346	7.93x10 ⁻⁵	5.18273792
SLC37A2	-1.399957573	-5.718740122	8.1x10 ⁻⁵	5.15177286
MYO15A	-1.200672160	-5.711018583	8.22x10 ⁻⁵	5.12832921
OSR2	-1.539030775	-5.694469966	8.51x10 ⁻⁵	5.07808966
ATP8A1	-1.616541272	-5.666527264	9.15x10 ⁻⁵	4.99327356
WDR5B	-1.173593301	-5.649653387	9.56x10 ⁻⁵	4.94206491
TFCP2L1	-2.379304007	-5.646598894	9.62x10 ⁻⁵	4.93279600
TOB1-AS1	-2.355875359	-5.638116483	9.82x10 ⁻⁵	4.90705733
PTPN22	-1.250756423	-5.632818043	9.93x10 ⁻⁵	4.89098102
SLCO2A1	-2.692992620	-5.632586646	9.93x10 ⁻⁵	4.89027894
SCML1	-1.086707282	-5.627333432	1.00371x10 ⁻⁴	4.87434070
DUSP1	-1.226494298	-5.626778590	1.00371x10 ⁻⁴	4.87265735
HOXA13	-1.273751399	-5.626247734	1.00371x10 ⁻⁴	4.87104679
CITED2	-1.650850320	-5.616880844	1.01807x10 ⁻⁴	4.84263003

IRF1	-2.168687929	-5.591702453	1.08537x10 ⁻⁴	4.76625890
PFKFB4	-2.540096318	-5.576840249	1.12522x10 ⁻⁴	4.72118875
ASS1	-1.004374873	-5.566234020	1.15403x10 ⁻⁴	4.68902974
FAM162A	-1.127877814	-5.553193822	1.18768x10 ⁻⁴	4.64949635
SPRY1	-1.762397617	-5.552990119	1.18768x10 ⁻⁴	4.64887884
SLC7A5	-1.729954468	-5.552297313	1.18782x10 ⁻⁴	4.64677867
RALGDS	-1.197486709	-5.535807290	1.24319x10 ⁻⁴	4.59679641
MAB21L3	-2.834865491	-5.522186018	1.28692x10 ⁻⁴	4.55551764
HAVCR1	-2.325671948	-5.514528687	1.31287x10 ⁻⁴	4.53231571
APOBEC3H	-2.930045873	-5.504806253	1.34001x10 ⁻⁴	4.50286003
TGIF1	-1.120220499	-5.486985683	1.40575x10 ⁻⁴	4.44888041
SMIM3	-1.848577082	-5.456579775	1.52765x10 ⁻⁴	4.35681247
KCNJ9	-2.565865307	-5.455429646	1.52765x10 ⁻⁴	4.35333078
HOXD1	-2.483251226	-5.454517475	1.52904x10 ⁻⁴	4.35056949
KCND3	-1.990014276	-5.445760185	1.56354x10 ⁻⁴	4.32406183
WWP2	-1.324496904	-5.442805860	1.57394x10 ⁻⁴	4.31512017
CEBPB	-1.301482210	-5.439846422	1.57946x10 ⁻⁴	4.30616347
RAB20	-1.714928958	-5.438846624	1.58059x10 ⁻⁴	4.30313769
PPFIA4	-1.279330148	-5.433433350	1.59621x10 ⁻⁴	4.28675592
BNIP3	-1.635700020	-5.422054661	1.62819x10 ⁻⁴	4.25232638
TXNIP	-2.312006324	-5.413577214	1.66385x10 ⁻⁴	4.22667980
GAB2	-1.369541356	-5.379682618	1.81961x10 ⁻⁴	4.12417862
RASSF5	-1.211559592	-5.366736926	1.87089x10 ⁻⁴	4.08504654
TLE2	-1.181691930	-5.346849499	1.9655x10 ⁻⁴	4.02495042
GRASP	-1.779726530	-5.323218096	2.09821x10 ⁻⁴	3.95357234
C2orf62	-2.116447751	-5.311357135	2.15841x10 ⁻⁴	3.91776002
CERK	-1.020548240	-5.307637589	2.17983x10 ⁻⁴	3.90653132
SBF2-AS1	-1.618424450	-5.302807346	2.19002x10 ⁻⁴	3.89195098
PLK3	-1.443914281	-5.301300005	2.19656x10 ⁻⁴	3.88740131
ZNF331	-1.135669360	-5.282557356	2.30171x10 ⁻⁴	3.83084241
MLLT3	-1.035674845	-5.277369861	2.32692x10 ⁻⁴	3.81519259
KCNK7	-2.596882313	-5.275225296	2.33464x10 ⁻⁴	3.80872333
FAM115C	-1.118893632	-5.270229683	2.35542x10 ⁻⁴	3.79365491
LOC150381	-1.226537707	-5.256736461	2.42421x10 ⁻⁴	3.75296375
ZBTB21	-1.029998377	-5.236365684	2.55378x10 ⁻⁴	3.69155719
MATN1-AS1	-1.951120547	-5.232722084	2.57035x10 ⁻⁴	3.68057701
WEE1	-1.623387009	-5.230501582	2.58402x10 ⁻⁴	3.67388590
NPAS2	-1.141954799	-5.220218878	2.64248x10 ⁻⁴	3.64290558
SBDSP1	-1.330241887	-5.216683374	2.66731x10 ⁻⁴	3.63225548
C5orf4	-1.344678177	-5.215579766	2.6681x10 ⁻⁴	3.62893125
PPP4R4	-1.207974617	-5.214694726	2.6712x10 ⁻⁴	3.62626544
SMOX	-1.355882307	-5.208173258	2.7174x10 ⁻⁴	3.60662419
FZD5	-1.732276970	-5.203527592	2.7392x10 ⁻⁴	3.59263449
ARID5A	-1.298710576	-5.197549471	2.76709x10 ⁻⁴	3.57463481

HOXA11	-1.324545728	-5.197285893	2.76709x10 ⁻⁴	3.57384126
RBM24	-2.800332694	-5.190081963	2.82111x10 ⁻⁴	3.55215470
PNRC1	-1.609213507	-5.187640565	2.83219x10 ⁻⁴	3.54480612
PRKAG2	-1.490641399	-5.187321766	2.83219x10 ⁻⁴	3.54384657
LOC100506801	-2.728624448	-5.186332249	2.83651x10 ⁻⁴	3.54086830
ICAM1	-1.209921951	-5.179683165	2.87534x10 ⁻⁴	3.52085778
BCR	-1.214260284	-5.167984018	2.96658x10 ⁻⁴	3.48565786
CDC42EP4	-1.381611842	-5.162469892	3.00416x10 ⁻⁴	3.46907114
FP588	-1.357221539	-5.155199501	3.06364x10 ⁻⁴	3.44720541
TCF7	-1.070901820	-5.153537498	3.07485x10 ⁻⁴	3.44220756
MIDN	-1.248607747	-5.149484612	3.1092x10 ⁻⁴	3.43002102
SLC6A16	-2.081726429	-5.147741479	3.12139x10 ⁻⁴	3.42478006
SPAG4	-1.132788011	-5.130803831	3.24214x10 ⁻⁴	3.37386855
ASNS	-1.264525150	-5.128120599	3.25389x10 ⁻⁴	3.36580555
ALDH2	-1.063902942	-5.117709950	3.34617x10 ⁻⁴	3.33452805
ARNTL	-1.966190653	-5.110838044	3.40341x10 ⁻⁴	3.31388760
PRKD2	-1.043261262	-5.108302432	3.41906x10 ⁻⁴	3.30627273
LAYN	-1.164656515	-5.090771128	3.57008x10 ⁻⁴	3.25363940
TINAGL1	-2.170846201	-5.089891535	3.57128x10 ⁻⁴	3.25099940
LOC284950	-1.988156686	-5.083473546	3.63095x10 ⁻⁴	3.23173870
FOS	-2.290729337	-5.082239060	3.63661x10 ⁻⁴	3.22803439
ZNF442	-1.615136267	-5.072042380	3.7247x10 ⁻⁴	3.19744287
LOC284578	-2.930026961	-5.068948825	3.74575x10 ⁻⁴	3.18816373
PLEKHA2	-1.028181444	-5.068851862	3.74575x10 ⁻⁴	3.18787291
COL4A2-AS1	-2.135714472	-5.068205084	3.74795x10 ⁻⁴	3.18593302
PLIN2	-1.025070500	-5.064604704	3.7794x10 ⁻⁴	3.17513507
FOSB	-3.101396969	-5.058329109	3.83754x10 ⁻⁴	3.15631687
KCNAB1	-1.011041458	-5.057202624	3.84557x10 ⁻⁴	3.15293936
NR1D1	-2.418121195	-5.034603840	4.07224x10 ⁻⁴	3.08520867
EIF4A3	-1.006014646	-5.013441995	4.28978x10 ⁻⁴	3.02183145
GUSBP5	-1.073528441	-5.011749171	4.28978x10 ⁻⁴	3.01676364
ADSSL1	-1.592938248	-5.007377943	4.34248x10 ⁻⁴	3.00367886
PATL1	-1.127085887	-4.995434061	4.47126x10 ⁻⁴	2.96793647
SH2B2	-1.903548332	-4.994297507	4.47362x10 ⁻⁴	2.96453609
FAM83G	-2.477945275	-4.993580176	4.47755x10 ⁻⁴	2.96239003
DENND3	-1.041574797	-4.977810855	4.64576x10 ⁻⁴	2.91522638
LDHD	-1.301504623	-4.973426317	4.69688x10 ⁻⁴	2.90211769
NR4A3	-1.923705882	-4.972185304	4.7025x10 ⁻⁴	2.89840774
EMC9	-1.499337479	-4.953820847	4.89382x10 ⁻⁴	2.84352807
TMEM184A	-1.408577796	-4.949467411	4.94744x10 ⁻⁴	2.83052394
PER1	-1.591320231	-4.948659781	4.9534x10 ⁻⁴	2.82811171
LOC100129617	-2.586810697	-4.945917048	4.98923x10 ⁻⁴	2.81992026
FBXO31	-1.020848966	-4.942424187	5.01753x10 ⁻⁴	2.80948970
HIST1H1D	-3.334936498	-4.932570362	5.13551x10 ⁻⁴	2.78007124

RSG1	-1.497152631	-4.918876169	5.32189x10 ⁻⁴	2.73920604
IGSF8	-1.010513230	-4.918254427	5.32538x10 ⁻⁴	2.73735120
LOC100506394	-1.820729719	-4.917542792	5.33036x10 ⁻⁴	2.73522824
ZFAND5	-1.479412458	-4.906296674	5.47072x10 ⁻⁴	2.70168661
VIT	-2.162533105	-4.896158526	5.61017x10 ⁻⁴	2.67146240
TBX4	-1.487082477	-4.883736289	5.77927x10 ⁻⁴	2.63444569
ZFP36	-2.159332016	-4.873153231	5.94955x10 ⁻⁴	2.60292438
SH3GL3	-2.179140261	-4.872225861	5.95929x10 ⁻⁴	2.60016290
GALR2	-2.063374975	-4.867726218	6.01438x10 ⁻⁴	2.58676557
FOXD2	-1.140367024	-4.862313416	6.09972x10 ⁻⁴	2.57065271
C19orf69	-2.381765529	-4.859973673	6.13651x10 ⁻⁴	2.56368889
ANKRD37	-2.746390651	-4.842344773	6.40199x10 ⁻⁴	2.51124194
SLC25A33	-1.117373405	-4.840377703	6.42551x10 ⁻⁴	2.50539225
LOC100498859	-2.537333114	-4.838049418	6.45635x10 ⁻⁴	2.49846903
JPH1	-1.873629707	-4.828347602	6.62892x10 ⁻⁴	2.46962794
PIEZO2	-1.674160075	-4.824772115	6.69276x10 ⁻⁴	2.45900199
UBTD1	-1.087459975	-4.824084325	6.69276x10 ⁻⁴	2.45695814
TNFRSF1B	-2.086592689	-4.821490032	6.73618x10 ⁻⁴	2.44924948
KLF15	-2.145313453	-4.821218553	6.73618x10 ⁻⁴	2.44844286
SNORD99	-2.251029324	-4.810443088	6.92289x10 ⁻⁴	2.41643458
BTG3	-1.065819901	-4.809048386	6.94455x10 ⁻⁴	2.41229277
ASH1L-AS1	-2.048865120	-4.794247030	7.20107x10 ⁻⁴	2.36835366
SNORA80B	-2.778419967	-4.783551895	7.39175x10 ⁻⁴	2.33662266
EFNA1	-1.849945447	-4.783129949	7.39175x10 ⁻⁴	2.33537112
LOC730227	-2.742278111	-4.776136344	7.50064x10 ⁻⁴	2.31463092
LOC148696	-1.736457160	-4.774248735	7.51841x10 ⁻⁴	2.30903420
IL6R	-1.828922337	-4.773134000	7.51978x10 ⁻⁴	2.30572926
ZNF215	-1.039905030	-4.773073171	7.51978x10 ⁻⁴	2.30554892
ZC3H12A	-1.408737126	-4.766853427	7.64785x10 ⁻⁴	2.28711200
SGSM1	-1.701730897	-4.765522749	7.67052x10 ⁻⁴	2.28316823
CHAC1	-1.951402407	-4.763187678	7.69956x10 ⁻⁴	2.27624830
AQP10	-2.342914699	-4.762717971	7.70195x10 ⁻⁴	2.27485643
FAM157A	-2.555321931	-4.755198999	7.82913x10 ⁻⁴	2.25257984
RGS16	-1.294829182	-4.740800704	8.14741x10 ⁻⁴	2.20994410
ILF3-AS1	-1.224110161	-4.726622301	8.38843x10 ⁻⁴	2.16798856
STBD1	-1.207690449	-4.723674142	8.42756x10 ⁻⁴	2.15926828
PIP5KL1	-1.041578256	-4.721933765	8.44489x10 ⁻⁴	2.15412106
ZFPM2	-1.038288013	-4.717578561	8.54006x10 ⁻⁴	2.14124235
C6orf223	-2.249520485	-4.711426802	8.63694x10 ⁻⁴	2.12305584
SH3RF2	-1.351080347	-4.707944479	8.69892x10 ⁻⁴	2.11276348
CCNB1IP1	-1.267077986	-4.707874876	8.69892x10 ⁻⁴	2.11255778
LOC440518	-1.908054836	-4.706984643	8.69897x10 ⁻⁴	2.10992690
AVPR1A	-2.914942172	-4.699028462	8.88561x10 ⁻⁴	2.08641952
MAB21L2	-1.211005608	-4.694687862	8.95673x10 ⁻⁴	2.07359875

SLAIN1	-1.411022325	-4.693007881	8.99346x10 ⁻⁴	2.06863738
CXXC4	-1.348190717	-4.689130608	9.0789x10 ⁻⁴	2.05718851
ZNF185	-1.031021307	-4.683922600	9.1891x10 ⁻⁴	2.04181382
IRF2BPL	-1.045046574	-4.679976328	9.29131x10 ⁻⁴	2.03016667
CYP2W1	-2.321688031	-4.677219337	9.35047x10 ⁻⁴	2.02203102
RPS16P5	-2.353031743	-4.672611100	9.4537x10 ⁻⁴	2.00843510
EGR3	-2.121972779	-4.671024736	9.47983x10 ⁻⁴	2.00375552
KIAA1522	-1.280589807	-4.665407637	9.62446x10 ⁻⁴	1.98718890
BCKDHA	-1.207013984	-4.663691158	9.66515x10 ⁻⁴	1.98212742
APOF	-2.251629751	-4.660090961	9.73164x10 ⁻⁴	1.97151282
TAS1R1	-2.108308212	-4.656603827	9.81581x10 ⁻⁴	1.96123350
PRDM16	-1.766505347	-4.652454651	9.87464x10 ⁻⁴	1.94900509
ZNF703	-1.110342279	-4.652444782	9.87464x10 ⁻⁴	1.94897601
RPS6KA5	-1.238173215	-4.649909382	9.92622x10 ⁻⁴	1.94150504
LRCH2	-1.123057539	-4.639643484	1.018059x10 ⁻³	1.91126528
DPY19L2	-1.212027562	-4.636730195	1.025928x10 ⁻³	1.90268679
BEAN1	-1.274183771	-4.618183279	1.071855x10 ⁻³	1.84810537
IDI2-AS1	-1.851212779	-4.613199696	1.087246x10 ⁻³	1.83344875
FBXO32	-1.046686663	-4.611509684	1.090199x10 ⁻³	1.82847937
ZNF821	-1.133164303	-4.608527082	1.098469x10 ⁻³	1.81971037
HLA-L	-1.620784133	-4.601193355	1.120837x10 ⁻³	1.79815503
C6orf123	-2.718358235	-4.599109378	1.126067x10 ⁻³	1.79203141
SERTAD1	-1.294423145	-4.592943325	1.138374x10 ⁻³	1.77391712
BRE-AS1	-2.696276799	-4.590454566	1.143658x10 ⁻³	1.76660757
FGL2	-1.540936818	-4.580670151	1.169121x10 ⁻³	1.73788054
EGR1	-1.819027856	-4.579106031	1.172872x10 ⁻³	1.73328978
ARIH2OS	-1.584458180	-4.578978946	1.172872x10 ⁻³	1.73291680
IRF4	-2.751232097	-4.575535441	1.179487x10 ⁻³	1.72281149
SNORD70	-2.551981314	-4.574593254	1.181733x10 ⁻³	1.72004689
MYOC	-3.074639821	-4.569919946	1.195235x10 ⁻³	1.70633656
NMNAT3	-1.155865277	-4.566432633	1.205696x10 ⁻³	1.69610807
ALDH1L1-AS2	-2.223915990	-4.564601262	1.211286x10 ⁻³	1.69073739
DHDH	-2.129793093	-4.558682309	1.229812x10 ⁻³	1.67338337
C9orf173	-1.879816718	-4.557308746	1.233789x10 ⁻³	1.66935703
C22orf26	-2.568212843	-4.556040028	1.237382x10 ⁻³	1.66563831
FUT5	-2.400139322	-4.553822368	1.244591x10 ⁻³	1.65913882
MIR614	-2.737414182	-4.550067673	1.256521x10 ⁻³	1.64813656
EFNA3	-1.845054719	-4.549413503	1.256609x10 ⁻³	1.64621991
LDHC	-2.421960949	-4.548303896	1.258451x10 ⁻³	1.64296906
LOC284648	-1.545248489	-4.533420939	1.297137x10 ⁻³	1.59938674
CRYL1	-1.028207577	-4.529449725	1.307876x10 ⁻³	1.58776426
NRARP	-2.141555409	-4.526477113	1.314948x10 ⁻³	1.57906620
GYLTL1B	-1.486550704	-4.525516529	1.317455x10 ⁻³	1.57625580
CLUHP3	-2.013511864	-4.522428752	1.327434x10 ⁻³	1.56722294

GPR146	-1.557069667	-4.516800374	1.346637x10 ⁻³	1.55076227
SNX25	-1.048413519	-4.510419433	1.367987x10 ⁻³	1.53210754
C20orf203	-1.262580963	-4.506263989	1.382854x10 ⁻³	1.51996300
PITX1	-1.602188816	-4.504393921	1.386894x10 ⁻³	1.51449863
MLLT4-AS1	-2.526693540	-4.496042574	1.414781x10 ⁻³	1.49010359
GMPR	-1.260156888	-4.493961394	1.421161x10 ⁻³	1.48402625
THSD4	-1.188591164	-4.482626733	1.461303x10 ⁻³	1.45094138
LOC649133	-2.312757019	-4.482595775	1.461303x10 ⁻³	1.45085104
FLJ26850	-2.070204088	-4.482227682	1.461303x10 ⁻³	1.44977701
NFKB2	-1.163278657	-4.478122066	1.47646x10 ⁻³	1.43779922
TMEM107	-1.193452262	-4.474380633	1.488221x10 ⁻³	1.42688663
BCL6	-1.399394683	-4.473851353	1.488221x10 ⁻³	1.42534309
OPRK1	-3.434697406	-4.473725533	1.488221x10 ⁻³	1.42497617
ORAI3	-1.175483534	-4.472708677	1.491484x10 ⁻³	1.42201089
BAG3	-1.134601502	-4.471732242	1.493493x10 ⁻³	1.41916367
LOC100134229	-1.391492990	-4.468703306	1.505256x10 ⁻³	1.41033261
SREBF1	-1.028538184	-4.459920482	1.540901x10 ⁻³	1.38473543
C17orf100	-2.284068982	-4.452222353	1.567532x10 ⁻³	1.36231149
PPP1R3C	-1.757810503	-4.448668557	1.58071x10 ⁻³	1.35196340
ASTL	-2.839431328	-4.448002338	1.58071x10 ⁻³	1.35002374
STON1-GTF2A1L	-2.191436901	-4.445745867	1.588762x10 ⁻³	1.34345479
FAM71A	-2.638719375	-4.444571376	1.592288x10 ⁻³	1.34003604
RNF113A	-1.019569458	-4.442953466	1.59381x10 ⁻³	1.33532701
MIR5087	-3.061001166	-4.440928267	1.59941x10 ⁻³	1.32943323
VWA2	-1.872419845	-4.434746884	1.626865x10 ⁻³	1.31144892
CLK3	-1.034713691	-4.431885418	1.635314x10 ⁻³	1.30312616
RELA	-1.150336109	-4.429898781	1.640897x10 ⁻³	1.29734884
GPRC5B	-1.323559763	-4.419070486	1.686892x10 ⁻³	1.26587260
NR3C2	-1.064511959	-4.408426939	1.729434x10 ⁻³	1.23495571
SULT1C4	-2.228668586	-4.406964872	1.729434x10 ⁻³	1.23071051
ZNF292	-1.106456316	-4.404190777	1.73611x10 ⁻³	1.22265690
LOC440028	-1.713080358	-4.402595692	1.743037x10 ⁻³	1.21802683
SOWAHA	-2.625969895	-4.400318175	1.750628x10 ⁻³	1.21141672
VIPR1	-2.463199132	-4.386461724	1.814889x10 ⁻³	1.17122299
ARRDC2	-1.038535243	-4.382850581	1.831749x10 ⁻³	1.16075438
LOC284023	-1.745061079	-4.382172594	1.833963x10 ⁻³	1.15878921
LOC100133985	-1.897761374	-4.376878786	1.858325x10 ⁻³	1.14344808
EPN2-AS1	-2.066796343	-4.376701135	1.858325x10 ⁻³	1.14293336
TACR2	-1.699223605	-4.362581241	1.924287x10 ⁻³	1.10204311
PGF	-1.435537015	-4.359677156	1.938628x10 ⁻³	1.09363813
OXNAD1	-1.209315958	-4.355607606	1.95937x10 ⁻³	1.08186299
CIRBP-AS1	-1.419066305	-4.352168634	1.973278x10 ⁻³	1.07191507
TRIM31	-1.872492269	-4.351693568	1.974475x10 ⁻³	1.07054104
TRIB1	-1.632007309	-4.345586325	2.009606x10 ⁻³	1.05288124

ZNF791	-1.029431522	-4.342186391	2.027004x10 ⁻³	1.04305331
NYAP1	-1.379776061	-4.338519018	2.046206x10 ⁻³	1.03245500
PPM1J	-1.730295304	-4.335171207	2.061898x10 ⁻³	1.02278266
AK8	-1.565468817	-4.327670866	2.09361x10 ⁻³	1.00112155
NR4A2	-1.651946387	-4.326414268	2.097208x10 ⁻³	0.99749364
LINGO4	-2.115144086	-4.313930714	2.163134x10 ⁻³	0.96147063
FLJ35282	-1.252075791	-4.313480210	2.163992x10 ⁻³	0.96017126
KIAA0355	-1.095374260	-4.312219424	2.167119x10 ⁻³	0.95653506
AATK	-1.350667660	-4.312162597	2.167119x10 ⁻³	0.95637117
LOC731223	-2.295597617	-4.307055532	2.19744x10 ⁻³	0.94164554
SNORD63	-2.261454701	-4.297878226	2.239221x10 ⁻³	0.91519794
PDLIM4	-1.240374595	-4.290349742	2.282384x10 ⁻³	0.89351559
PDXP	-1.910736821	-4.288382895	2.29152x10 ⁻³	0.88785302
C9orf72	-1.281368649	-4.286483464	2.302712x10 ⁻³	0.88238534
AKNA	-1.046534422	-4.281993294	2.326671x10 ⁻³	0.86946312
C1orf51	-1.368537690	-4.277943948	2.35149x10 ⁻³	0.85781334
CYP1A1	-2.295990295	-4.277582647	2.352188x10 ⁻³	0.85677407
KCNK17	-2.587481925	-4.272568512	2.380437x10 ⁻³	0.84235403
PCK1	-2.559214807	-4.269567913	2.396367x10 ⁻³	0.83372733
HSD17B3	-1.463272941	-4.268705291	2.400709x10 ⁻³	0.83124767
C15orf39	-1.148247118	-4.265726937	2.412844x10 ⁻³	0.82268746
RAB44	-2.436071009	-4.259449083	2.453086x10 ⁻³	0.80465049
ZBTB7B	-1.021058714	-4.250860978	2.501634x10 ⁻³	0.77999018
C5orf56	-1.126045378	-4.244155319	2.547956x10 ⁻³	0.76074673
TCTEX1D4	-2.939412395	-4.235824220	2.603113x10 ⁻³	0.73685286
LOC100131551	-2.586787874	-4.234501446	2.607674x10 ⁻³	0.73306055
C1orf226	-1.425027993	-4.233560633	2.607858x10 ⁻³	0.73036355
LOC254896	-2.173552995	-4.230856613	2.624011x10 ⁻³	0.72261311
GPR133	-1.945216746	-4.228577791	2.639392x10 ⁻³	0.71608270
CYP4F22	-2.293589391	-4.227410740	2.641176x10 ⁻³	0.71273875
KDM3A	-1.926056805	-4.223853829	2.665454x10 ⁻³	0.70254906
BCL3	-1.439530583	-4.217178837	2.706993x10 ⁻³	0.68343466
GPX3	-1.878084611	-4.211091070	2.738173x10 ⁻³	0.66601080
PER2	-1.288207464	-4.208706646	2.753669x10 ⁻³	0.65918866
G0S2	-2.025739379	-4.205412751	2.77473x10 ⁻³	0.64976658
LRP5	-1.059240233	-4.200426735	2.810174x10 ⁻³	0.63550904
RASD1	-1.654272454	-4.198477406	2.820279x10 ⁻³	0.62993651
PPP1R3E	-1.033265499	-4.197981116	2.820279x10 ⁻³	0.62851791
TCTE1	-2.600047638	-4.195977443	2.834282x10 ⁻³	0.62279119
CHRNE	-1.196648828	-4.194344334	2.842687x10 ⁻³	0.61812427
DLGAP2	-1.890256783	-4.184255411	2.903943x10 ⁻³	0.58930722
REL	-1.006951450	-4.183259585	2.910466x10 ⁻³	0.58646414
APOD	-2.972636166	-4.181993008	2.916503x10 ⁻³	0.58284841
HSD11B2	-2.303021804	-4.181887046	2.916503x10 ⁻³	0.58254593

RASSF4	-1.163768168	-4.181829332	2.916503x10 ⁻³	0.58238118
LOC554223	-1.585688075	-4.177742950	2.939418x10 ⁻³	0.57071843
LAMC3	-1.558865452	-4.173060896	2.977327x10 ⁻³	0.55736048
RPS27	-1.737462560	-4.170375974	2.993952x10 ⁻³	0.54970274
PNPLA7	-1.117380658	-4.167408521	3.013173x10 ⁻³	0.54124118
SFMBT2	-1.220158231	-4.167261646	3.013173x10 ⁻³	0.54082243
USP2	-1.218785069	-4.164732073	3.031637x10 ⁻³	0.53361123
ELL2	-1.275356074	-4.162178568	3.052648x10 ⁻³	0.52633336
PHLDB3	-1.110762186	-4.160122464	3.064793x10 ⁻³	0.52047431
SHISA7	-2.056252889	-4.150104494	3.135201x10 ⁻³	0.49194180
F2RL3	-2.139788940	-4.147853647	3.151814x10 ⁻³	0.48553444
GCKR	-1.054981847	-4.142556294	3.191396x10 ⁻³	0.47045964
EHD1	-1.174959785	-4.142473117	3.191396x10 ⁻³	0.47022300
FOXI2	-2.565908109	-4.136242875	3.230491x10 ⁻³	0.45250237
METRNL	-1.058159414	-4.126812116	3.302647x10 ⁻³	0.42569669
GPM6A	-1.320041381	-4.126699017	3.302647x10 ⁻³	0.42537536
ACVR2B-AS1	-1.307124503	-4.124881995	3.318244x10 ⁻³	0.42021329
LOC91450	-1.664859805	-4.123928227	3.320662x10 ⁻³	0.41750401
DKFZP686115217	-1.090441525	-4.120373891	3.346603x10 ⁻³	0.40740953
SH3D21	-2.007326880	-4.100410397	3.506556x10 ⁻³	0.35077091
NFKBIE	-1.444669203	-4.100247252	3.506556x10 ⁻³	0.35030846
TMEM253	-1.395182695	-4.098703062	3.520268x10 ⁻³	0.34593166
UPK3B	-2.079766987	-4.094869709	3.545916x10 ⁻³	0.33506914
FAM222A	-1.774156639	-4.091108131	3.578128x10 ⁻³	0.32441364
ARC	-2.101330754	-4.088102272	3.590492x10 ⁻³	0.31590146
SNORA84	-1.834721339	-4.076315879	3.698304x10 ⁻³	0.28254627
VLDLR	-1.320629402	-4.075107500	3.706803x10 ⁻³	0.27912860
IL20RA	-2.163795703	-4.073310019	3.721589x10 ⁻³	0.27404547
TSKU	-1.226791978	-4.067817765	3.772546x10 ⁻³	0.25851896
TBC1D2B	-1.216360502	-4.065295137	3.795768x10 ⁻³	0.25139015
KCNK16	-1.759890258	-4.064867835	3.798018x10 ⁻³	0.25018278
TPRG1	-1.196594399	-4.057825684	3.849764x10 ⁻³	0.23029156
SORL1	-1.197908816	-4.057756964	3.849764x10 ⁻³	0.23009752
CD79B	-1.119985280	-4.057587132	3.849764x10 ⁻³	0.22961797
STC1	-2.833466187	-4.045979751	3.939711x10 ⁻³	0.19686078
BEX2	-2.292523661	-4.043341022	3.965352x10 ⁻³	0.18941896
SLC43A1	-1.071675266	-4.042446900	3.965417x10 ⁻³	0.18689774
LOC100507156	-2.234676975	-4.041003880	3.977161x10 ⁻³	0.18282921
ABHD4	-1.144987064	-4.037490303	4.013149x10 ⁻³	0.17292512
LIF	-2.911768999	-4.030462609	4.073773x10 ⁻³	0.15312522
EIF4EBP3	-2.097601253	-4.027464798	4.096687x10 ⁻³	0.14468315
LOC100126784	-1.343202985	-4.026005984	4.111734x10 ⁻³	0.14057588
NCKAP1L	-1.289916619	-4.015640553	4.209613x10 ⁻³	0.11140853
RXFP4	-2.564022830	-4.014559386	4.214911x10 ⁻³	0.10836789

SDC4	-1.129335816	-4.010584004	4.253761x10 ⁻³	0.09719034
PSRC1	-1.318391318	-4.007208466	4.288134x10 ⁻³	0.08770271
KIAA1045	-1.745675269	-4.006628806	4.292269x10 ⁻³	0.08607377
FOXG1	-1.776247031	-4.005899092	4.292269x10 ⁻³	0.08402328
ARHGEF5	-1.075700773	-3.998235935	4.369741x10 ⁻³	0.06249860
OGFR	-1.163595352	-3.998002670	4.369741x10 ⁻³	0.06184365
SLC7A5P2	-1.304989509	-3.997524158	4.369741x10 ⁻³	0.06050014
PALD1	-1.829428807	-3.991158983	4.427996x10 ⁻³	0.04263467
PRCD	-1.659251993	-3.982062024	4.505683x10 ⁻³	0.01712102
C9orf174	-2.232880669	-3.981392163	4.511766x10 ⁻³	0.01524320
MYC	-1.275749777	-3.980413376	4.521976x10 ⁻³	0.01249959
C5orf49	-1.103700223	-3.977531040	4.552027x10 ⁻³	0.00442174
TRIM14	-1.075326362	-3.976266778	4.566174x10 ⁻³	0.00087932
JUP	-1.187386754	-3.968169016	4.656117x10 ⁻³	-0.02179983
TBX3	-1.256874639	-3.963525823	4.714388x10 ⁻³	-0.03479566
LOC100630918	-1.028815767	-3.960123982	4.753002x10 ⁻³	-0.04431326
ENO2	-1.398700878	-3.953267598	4.830613x10 ⁻³	-0.06348607
KBTBD12	-1.208833256	-3.947979346	4.879913x10 ⁻³	-0.07826483
MIR23A	-2.692193428	-3.942474769	4.951123x10 ⁻³	-0.09363976
ZDHHC23	-1.004285557	-3.928317243	5.108226x10 ⁻³	-0.13314396
MIR24-2	-2.222156434	-3.926062201	5.139054x10 ⁻³	-0.13943100
RNF144B	-1.081589566	-3.925044105	5.149327x10 ⁻³	-0.14226897
CAHM	-1.719858789	-3.924048621	5.16014x10 ⁻³	-0.14504362
PHF3	-1.081476668	-3.922613677	5.170486x10 ⁻³	-0.14904265
OTUD1	-1.521610010	-3.920519603	5.185961x10 ⁻³	-0.15487754
MIR3190	-2.315302918	-3.916097067	5.234453x10 ⁻³	-0.16719628
MIR27A	-2.635473079	-3.914915340	5.246338x10 ⁻³	-0.17048696
LINC00167	-1.915499562	-3.909520537	5.304591x10 ⁻³	-0.18550443
VPS37D	-1.398444339	-3.908484678	5.317558x10 ⁻³	-0.18838697
SYCE2	-1.701404571	-3.899398125	5.431967x10 ⁻³	-0.21365933
C2orf50	-1.806656293	-3.894987003	5.48636x10 ⁻³	-0.22591928
PIM1	-2.276045890	-3.893595583	5.505513x10 ⁻³	-0.22978532
PLIN5	-3.030341272	-3.890642001	5.546789x10 ⁻³	-0.23798990
ADCYAP1R1	-1.802863010	-3.876296335	5.720473x10 ⁻³	-0.27780345
TSLP	-1.072930124	-3.875029861	5.732982x10 ⁻³	-0.28131538
KCNK5	-1.303962811	-3.873593600	5.749089x10 ⁻³	-0.28529755
MIR4681	-1.881916784	-3.868965618	5.810377x10 ⁻³	-0.29812491
MED16	-1.031412903	-3.867643822	5.81948x10 ⁻³	-0.30178736
JMY	-1.561924833	-3.864641868	5.857193x10 ⁻³	-0.31010328
TBX5	-1.666013906	-3.863633675	5.868595x10 ⁻³	-0.31289554
RHOU	-1.056069329	-3.862333190	5.883241x10 ⁻³	-0.31649687
KPNA7	-1.747338512	-3.859776490	5.92393x10 ⁻³	-0.32357547
ST7-AS1	-1.148720278	-3.857923523	5.949222x10 ⁻³	-0.32870446
ENO1-AS1	-2.239185718	-3.856169435	5.9729x10 ⁻³	-0.33355881

DHH	-2.042134478	-3.853390004	6.007756x10 ⁻³	-0.34124885
SYNE3	-1.153247019	-3.852471381	6.020435x10 ⁻³	-0.34378996
PTP4A3	-1.519168175	-3.845986133	6.107459x10 ⁻³	-0.36172229
POU2F3	-1.530177173	-3.844755301	6.122443x10 ⁻³	-0.36512423
KDM6B	-1.376520555	-3.839792065	6.187509x10 ⁻³	-0.37883762
EID2B	-1.490667663	-3.836020579	6.234206x10 ⁻³	-0.38925322
VAMP1	-1.020907788	-3.834965556	6.249871x10 ⁻³	-0.39216607
HOXA11-AS	-1.432246540	-3.825466006	6.39633x10 ⁻³	-0.41837843
HIST1H2AK	-2.191248454	-3.822337507	6.440366x10 ⁻³	-0.42700494
PNOC	-2.276650236	-3.819929959	6.471128x10 ⁻³	-0.43364146
SKAP1	-1.869857912	-3.819031999	6.479959x10 ⁻³	-0.43611627
PTGS2	-1.732944036	-3.808455398	6.622842x10 ⁻³	-0.46524707
F13A1	-1.520510215	-3.807980417	6.625805x10 ⁻³	-0.46655448
REM2	-1.519962914	-3.799273943	6.758172x10 ⁻³	-0.49050717
OVOL2	-1.432563831	-3.794243960	6.846323x10 ⁻³	-0.50433458
TIPARP-AS1	-1.271203386	-3.793005237	6.859675x10 ⁻³	-0.50773861
TRIB3	-1.657637441	-3.791588092	6.87663x10 ⁻³	-0.51163236
LINC00313	-2.012289444	-3.790360280	6.893628x10 ⁻³	-0.51500539
NOTCH4	-1.210700263	-3.788528179	6.924538x10 ⁻³	-0.52003763
CAPN12	-1.609925002	-3.781678486	7.027178x10 ⁻³	-0.53884239
CEBPA	-2.268383075	-3.781106265	7.031197x10 ⁻³	-0.54041267
PXN-AS1	-1.582561034	-3.775800128	7.128596x10 ⁻³	-0.55496871
KIAA1462	-1.103992243	-3.769748205	7.225272x10 ⁻³	-0.57155976
ESR2	-1.536674703	-3.766032649	7.277941x10 ⁻³	-0.58174000
UPP1	-1.125734541	-3.764038207	7.308291x10 ⁻³	-0.58720276
LOC644656	-1.569255688	-3.762855627	7.313692x10 ⁻³	-0.59044123
S1PR2	-1.203519088	-3.757713561	7.403524x10 ⁻³	-0.60451750
TSPAN33	-1.143568951	-3.751832911	7.498486x10 ⁻³	-0.62060524
LPPR3	-1.925991086	-3.747606133	7.57055x10 ⁻³	-0.63216160
KIAA2022	-1.318298762	-3.743930451	7.627116x10 ⁻³	-0.64220654
SALL4	-1.491505738	-3.740742164	7.68145x10 ⁻³	-0.65091599
IL17REL	-2.198298798	-3.738796039	7.708471x10 ⁻³	-0.65623061
SLC16A9	-1.269194859	-3.730968957	7.843514x10 ⁻³	-0.67759294
LINC00092	-1.937670240	-3.730271068	7.85093x10 ⁻³	-0.67949671
WNT3A	-1.800430478	-3.728082666	7.896238x10 ⁻³	-0.68546542
GPR3	-1.889769639	-3.727024769	7.90413x10 ⁻³	-0.68835020
SYCP2L	-1.364597422	-3.725555027	7.925298x10 ⁻³	-0.69235743
FBLN1	-1.700561032	-3.724251656	7.95101x10 ⁻³	-0.69591046
HIST1H2BG	-2.351325367	-3.724040733	7.951702x10 ⁻³	-0.69648539
STRA6	-1.470097083	-3.719645765	8.032217x10 ⁻³	-0.70846181
PTK6	-1.194138357	-3.719136575	8.038318x10 ⁻³	-0.70984896
OTUB2	-1.386681947	-3.718569094	8.040831x10 ⁻³	-0.71139480
SCN4A	-1.642011985	-3.718373657	8.040831x10 ⁻³	-0.71192716
OR51M1	-1.814276984	-3.717446974	8.049821x10 ⁻³	-0.71445120

CRHR2	-1.371206766	-3.716898320	8.054223x10 ⁻³	-0.71594546
IZUMO4	-1.529959934	-3.709603795	8.191455x10 ⁻³	-0.73580267
FLJ38576	-1.909397833	-3.706186481	8.255482x10 ⁻³	-0.74509926
OVOL1	-2.129703126	-3.702177890	8.334195x10 ⁻³	-0.75599946
EPN2-IT1	-1.974830202	-3.700308112	8.356583x10 ⁻³	-0.76108196
CHD5	-1.822766921	-3.698319294	8.392836x10 ⁻³	-0.76648676
3-Mar	-1.285692317	-3.695995264	8.444842x10 ⁻³	-0.77280087
RNU12	-3.089843992	-3.688889648	8.575429x10 ⁻³	-0.79209479
ODF3	-1.691012761	-3.684930037	8.641768x10 ⁻³	-0.80283901
GGTA1P	-1.770348467	-3.684798092	8.641768x10 ⁻³	-0.80319695
NR4A1	-1.824922669	-3.680179392	8.743959x10 ⁻³	-0.81572274
C11orf85	-2.139331740	-3.679561399	8.755074x10 ⁻³	-0.81739817
PRKRIP1	-2.018053507	-3.676682493	8.81442x10 ⁻³	-0.82520146
FUT3	-2.209993920	-3.676304820	8.819539x10 ⁻³	-0.82622493
CASZ1	-1.559667428	-3.674600553	8.844977x10 ⁻³	-0.83084282
C4orf47	-1.643879121	-3.668162366	8.973852x10 ⁻³	-0.84827890
MEG3	-1.046748673	-3.667919415	8.975614x10 ⁻³	-0.84893659
ABCB1	-1.667301672	-3.662598479	9.068268x10 ⁻³	-0.86333586
PARD3	-1.003123010	-3.657403755	9.163261x10 ⁻³	-0.87738429
AFAP1L2	-1.122748813	-3.656967955	9.170167x10 ⁻³	-0.87856244
IER3	-1.487534331	-3.652472949	9.261511x10 ⁻³	-0.89071047
LOC400752	-1.982536534	-3.652110783	9.266546x10 ⁻³	-0.89168895
ACPP	-2.558385551	-3.651158037	9.287285x10 ⁻³	-0.89426280
PLK2	-2.181055113	-3.641533073	9.45699x10 ⁻³	-0.92024724
LOC255512	-1.457452261	-3.639332251	9.495127x10 ⁻³	-0.92618430
CPSF4L	-1.780995101	-3.633930838	9.623654x10 ⁻³	-0.94074838
GCH1	-1.414550863	-3.628435608	9.757037x10 ⁻³	-0.95555505
RGS6	-1.495716689	-3.626859389	9.79157x10 ⁻³	-0.95980018
C17orf82	-2.001640029	-3.624732667	9.824551x10 ⁻³	-0.96552656
MATN1	-1.603561486	-3.624651304	9.824551x10 ⁻³	-0.96574561
LOC100129917	-1.833024770	-3.621019592	9.898613x10 ⁻³	-0.97552057
TNFRSF10D	-1.323144419	-3.616401498	1.0015498x10 ⁻²	-0.98794378
C1orf115	-1.236624477	-3.614588687	1.0062607x10 ⁻²	-0.99281842
LOC100507391	-2.283866630	-3.613639818	1.0070482x10 ⁻²	-0.99536946
HSPA4L	-1.434129585	-3.609149409	1.0170985x10 ⁻²	-1.00743768
MALAT1	-1.081421659	-3.607511487	1.0199048x10 ⁻²	-1.01183792
DBIL5P	-1.225063549	-3.606382422	1.0222498x10 ⁻²	-1.01487058
PPME1	-1.251337561	-3.606370711	1.0222498x10 ⁻²	-1.01490203
LRP1B	-1.666032261	-3.603316021	1.0292235x10 ⁻²	-1.02310464
ANKZF1	-1.032275040	-3.602541470	1.0305149x10 ⁻²	-1.02518398
LOC100129722	-1.669858043	-3.599948497	1.0356898x10 ⁻²	-1.03214348
HBZ	-1.913417454	-3.595952436	1.0455599x10 ⁻²	-1.04286417
FOXJ1	-2.098943697	-3.594295003	1.0484596x10 ⁻²	-1.04730910
RNF157	-1.141847485	-3.593409295	1.0486796x10 ⁻²	-1.04968401

DCST1	-1.824568494	-3.588857700	1.0586441x10 ⁻²	-1.06188410
C20orf195	-1.742776855	-3.585133585	1.0646178x10 ⁻²	-1.07186073
CASP12	-1.119559661	-3.584872856	1.0649087x10 ⁻²	-1.07255902
SYNJ2-IT1	-1.725543595	-3.576351445	1.0839221x10 ⁻²	-1.09536783
RNU11	-1.957343385	-3.576159629	1.0839318x10 ⁻²	-1.09588095
AKR7A2P1	-2.922675567	-3.575339639	1.0840162x10 ⁻²	-1.09807435
FLJ30679	-1.701775742	-3.572846246	1.0907128x10 ⁻²	-1.10474246
PEG10	-1.385736436	-3.569803897	1.0991625x10 ⁻²	-1.11287562
HCG9	-1.943762725	-3.566580649	1.1068344x10 ⁻²	-1.12148875
PXT1	-1.842888574	-3.566540329	1.1068344x10 ⁻²	-1.12159647
EXOC3L1	-1.668129218	-3.565890465	1.1083666x10 ⁻²	-1.12333257
GDF15	-2.203927286	-3.561728469	1.1189555x10 ⁻²	-1.13444763
ABCA1	-1.539714527	-3.554269867	1.1407838x10 ⁻²	-1.15435095
DLGAP1	-1.482935722	-3.552426822	1.1462344x10 ⁻²	-1.15926601
PPP1R27	-2.137806469	-3.551460179	1.1486738x10 ⁻²	-1.16184338
RAMP1	-1.518290491	-3.548830158	1.1556725x10 ⁻²	-1.16885410
CBWD3	-1.645792181	-3.531716845	1.2042689x10 ⁻²	-1.21441047
CASC1	-1.056632563	-3.530462313	1.2059373x10 ⁻²	-1.21774586
MTRNR2L8	-1.580218867	-3.526317229	1.2168379x10 ⁻²	-1.22876215
PARM1	-1.145155554	-3.525224913	1.2199283x10 ⁻²	-1.23166412
NANOG	-1.419664505	-3.517774381	1.238084x10 ⁻²	-1.25144624
LOC553103	-1.145712571	-3.512598399	1.2501895x10 ⁻²	-1.26517701
FLJ13224	-2.032042476	-3.511909472	1.2515015x10 ⁻²	-1.26700383
YBX2	-1.938464418	-3.510325446	1.2559852x10 ⁻²	-1.27120352
MRS2P2	-2.015650934	-3.509628922	1.2567699x10 ⁻²	-1.27304989
ASIC4	-1.816833517	-3.509429082	1.2569173x10 ⁻²	-1.27357961
LOC729970	-1.462361592	-3.507465880	1.2605223x10 ⁻²	-1.27878263
WDR86	-1.966617206	-3.506573266	1.2620146x10 ⁻²	-1.28114783
SLC2A4	-1.388393220	-3.506185288	1.262835x10 ⁻²	-1.28217577
TMEM88	-1.751448977	-3.503373810	1.2700666x10 ⁻²	-1.28962311
CYTL1	-1.980248033	-3.500922001	1.2754833x10 ⁻²	-1.29611530
SNORD38A	-1.811676346	-3.494051262	1.2929871x10 ⁻²	-1.31429644
OR5B12	-1.529937672	-3.482053403	1.3251688x10 ⁻²	-1.34600216
SNORA67	-2.170105556	-3.476197213	1.3431895x10 ⁻²	-1.36145802
MIR210HG	-1.387863231	-3.471763081	1.355796x10 ⁻²	-1.37315206
CCDC28A	-1.250555283	-3.464307882	1.3773344x10 ⁻²	-1.39279657
JUND	-1.286514727	-3.463865680	1.3784516x10 ⁻²	-1.39396111
GPHA2	-1.697806723	-3.462158258	1.3809107x10 ⁻²	-1.39845690
CD274	-1.239640534	-3.452619729	1.411033x10 ⁻²	-1.42355208
ARRDC3	-1.266295737	-3.450372419	1.417267x10 ⁻²	-1.42945949
MIR219-1	-1.948910196	-3.446516378	1.4300468x10 ⁻²	-1.43959116
PDK4	-1.939067190	-3.445821865	1.4319996x10 ⁻²	-1.44141536
DPH3P1	-1.673738088	-3.442432625	1.4395609x10 ⁻²	-1.45031486
AARD	-2.169643650	-3.439043499	1.4497001x10 ⁻²	-1.45920960

SNORD61	-1.877061472	-3.437989767	1.4533689x10 ⁻²	-1.46197421
INHA	-1.523213280	-3.434206754	1.4663613x10 ⁻²	-1.47189588
FLJ42875	-1.930546512	-3.432121354	1.4743205x10 ⁻²	-1.47736285
TMEM171	-2.081780435	-3.430632864	1.4792249x10 ⁻²	-1.48126396
HMOX1	-1.033339839	-3.425555896	1.4931018x10 ⁻²	-1.49456342
PLEKHA7	-1.139648876	-3.424447767	1.4968327x10 ⁻²	-1.49746490
SPAG5-AS1	-1.164231060	-3.413429974	1.5320618x10 ⁻²	-1.52628719
LOC401074	-1.372264702	-3.410539428	1.5425475x10 ⁻²	-1.53384088
CD37	-1.753986577	-3.409165425	1.5471877x10 ⁻²	-1.53743032
SLC51B	-1.826638132	-3.408687181	1.5486109x10 ⁻²	-1.53867951
FAM205A	-1.721120899	-3.405205996	1.5604851x10 ⁻²	-1.54776975
TCP11	-1.486480113	-3.404376430	1.5628054x10 ⁻²	-1.54993524
ODF3L1	-1.217304903	-3.400060688	1.5771556x10 ⁻²	-1.56119663
GNAT1	-1.901647876	-3.396825741	1.5879487x10 ⁻²	-1.56963296
MOGAT1	-1.856891740	-3.396726261	1.5879487x10 ⁻²	-1.56989233
PROK2	-1.734014108	-3.392448785	1.6030235x10 ⁻²	-1.58104089
LINC00115	-1.361280595	-3.387894984	1.6201495x10 ⁻²	-1.59290161
SSTR5	-1.061310933	-3.387217920	1.6218767x10 ⁻²	-1.59466437
FBXW4P1	-1.031822063	-3.381419025	1.6462307x10 ⁻²	-1.60975446
EXPH5	-1.012595940	-3.380181560	1.6508177x10 ⁻²	-1.61297289
INGX	-1.563025441	-3.380124509	1.6508177x10 ⁻²	-1.61312125
FAM13A	-1.052266450	-3.376404864	1.6645765x10 ⁻²	-1.62279160
TMC3	-1.943430469	-3.372299255	1.678884x10 ⁻²	-1.63345892
SERPINA10	-2.192855828	-3.368770827	1.6940392x10 ⁻²	-1.64262115
NECAB3	-1.307893026	-3.368016191	1.6969033x10 ⁻²	-1.64458005
LOC100289473	-1.373503716	-3.361578545	1.7219011x10 ⁻²	-1.66128167
LINC00441	-1.661986345	-3.353964196	1.7543835x10 ⁻²	-1.68101437
PPP1R15B	-1.396595947	-3.349184887	1.7749041x10 ⁻²	-1.69338796
SLC34A3	-1.729293028	-3.347570239	1.7815952x10 ⁻²	-1.69756616
SLC25A29	-2.084673773	-3.344812545	1.7907522x10 ⁻²	-1.70469973
LRP5L	-1.075569635	-3.337523579	1.819134x10 ⁻²	-1.72353974
FLI1-AS1	-1.205946806	-3.335813569	1.8234491x10 ⁻²	-1.72795649
LOC254100	-1.670553217	-3.333151439	1.8334288x10 ⁻²	-1.73483005
FOXC2	-2.008307674	-3.328111939	1.8508676x10 ⁻²	-1.74783394
SOX3	-2.194265782	-3.325674840	1.8599094x10 ⁻²	-1.75411884
DLL4	-1.870221461	-3.324759811	1.8614434x10 ⁻²	-1.75647793
MYLPF	-1.924309066	-3.322992873	1.8653899x10 ⁻²	-1.76103238
LTB4R2	-1.590935262	-3.320005676	1.8756634x10 ⁻²	-1.76872923
LOC154761	-1.516836790	-3.316236418	1.890075x10 ⁻²	-1.77843585
LOC729966	-1.896636363	-3.312009547	1.9077519x10 ⁻²	-1.78931389
GPBAR1	-1.656424749	-3.311027131	1.9121785x10 ⁻²	-1.79184112
LOC730668	-1.572938355	-3.306102914	1.9322651x10 ⁻²	-1.80450238
ACER2	-1.324804355	-3.303676335	1.9399356x10 ⁻²	-1.81073793
ADAMTSL2	-1.589231358	-3.299616369	1.9579408x10 ⁻²	-1.82116525

ARID5B	-1.046931200	-3.297551652	1.9668117x10 ⁻²	-1.82646547
MRPL23-AS1	-1.896960292	-3.296175689	1.972745x10 ⁻²	-1.82999663
MAP3K9	-1.246622987	-3.289864997	1.9980082x10 ⁻²	-1.84618166
RNU6ATAC	-2.017265435	-3.289289235	2.0001948x10 ⁻²	-1.84765748
ERN1	-1.418798537	-3.289187079	2.0001948x10 ⁻²	-1.84791932
SCNN1A	-1.521564587	-3.287283959	2.0075953x10 ⁻²	-1.85279641
ARHGAP10	-1.027383966	-3.287064589	2.0080346x10 ⁻²	-1.85335848
LZTS2	-1.501089352	-3.284762853	2.0176756x10 ⁻²	-1.85925484
FAM163A	-1.595246778	-3.284040394	2.020355x10 ⁻²	-1.86110510
SOCS1	-2.151668693	-3.278710251	2.0435756x10 ⁻²	-1.87474907
ARHGEF16	-1.398706414	-3.278585814	2.0435756x10 ⁻²	-1.87506746
MYOG	-1.793716769	-3.275188090	2.0595761x10 ⁻²	-1.88375840
DUSP8	-1.755230741	-3.273668283	2.0658195x10 ⁻²	-1.88764428
LOC100127888	-1.541940476	-3.270346544	2.0791847x10 ⁻²	-1.89613396
SRCIN1	-1.764720555	-3.270073641	2.0794812x10 ⁻²	-1.89683123
LOC286059	-2.064167529	-3.264825525	2.0996681x10 ⁻²	-1.91023412
MIR1908	-1.343870878	-3.264555231	2.0996961x10 ⁻²	-1.91092409
B3GNT8	-1.714738570	-3.263084892	2.1057871x10 ⁻²	-1.91467683
MAFK	-1.355787944	-3.259377022	2.1224799x10 ⁻²	-1.92413630
RBM20	-2.213170906	-3.258673237	2.1249751x10 ⁻²	-1.92593112
ZNF628	-1.084790738	-3.255994160	2.1382058x10 ⁻²	-1.93276146
SNORA78	-1.956823930	-3.254829831	2.1442251x10 ⁻²	-1.93572897
ICAM4	-1.759317546	-3.254024054	2.1465411x10 ⁻²	-1.93778230
DDTL	-1.273352261	-3.248541171	2.1732729x10 ⁻²	-1.95174671
PRR7	-1.438576779	-3.247881909	2.1763801x10 ⁻²	-1.95342492
GPRASP2	-1.618528357	-3.246231075	2.1845913x10 ⁻²	-1.95762643
GAS6-AS1	-1.441126976	-3.244069900	2.1918022x10 ⁻²	-1.96312503
TP53AIP1	-1.805614960	-3.243449756	2.1946735x10 ⁻²	-1.96470246
SLC25A28	-1.108942434	-3.239253477	2.2175276x10 ⁻²	-1.97537200
C2orf57	-1.771044443	-3.238506314	2.219593x10 ⁻²	-1.97727095
SNORD114-19	-2.048053750	-3.234722228	2.2384694x10 ⁻²	-1.98688465
TMOD1	-1.638418324	-3.222632053	2.3007057x10 ⁻²	-2.01755870
CCDC19	-1.193222372	-3.219896458	2.311097x10 ⁻²	-2.02449034
LINC00309	-2.135103420	-3.216578735	2.3260846x10 ⁻²	-2.03289260
SNORD38B	-1.651785144	-3.206337686	2.37705x10 ⁻²	-2.05879796
MIR3132	-1.146957934	-3.196663688	2.4248607x10 ⁻²	-2.08322641
TRPM3	-1.642507841	-3.194641741	2.4350873x10 ⁻²	-2.08832692
PANX2	-1.579467380	-3.192910900	2.4439017x10 ⁻²	-2.09269165
TNNC2	-1.534301272	-3.183700735	2.4904193x10 ⁻²	-2.11589488
PAPPA2	-1.163587382	-3.179908552	2.5116324x10 ⁻²	-2.12543755
LGALS8-AS1	-2.056755320	-3.178045175	2.5216294x10 ⁻²	-2.13012421
UBQLN3	-1.335324524	-3.177322821	2.52465x10 ⁻²	-2.13194061
INADL	-1.103457599	-3.175513489	2.5335317x10 ⁻²	-2.13648926
TMEM95	-1.624067575	-3.170990333	2.5574268x10 ⁻²	-2.14785402

GPR61	-1.234978932	-3.169741411	2.5620907x10 ⁻²	-2.15099041
NEURL2	-1.237705822	-3.169693825	2.5620907x10 ⁻²	-2.15110990
LOC400548	-1.651501625	-3.165264890	2.5847981x10 ⁻²	-2.16222643
PROSER2-AS1	-1.191291704	-3.165190721	2.5847981x10 ⁻²	-2.16241252
DKFZP434A062	-1.390280174	-3.164289770	2.5894291x10 ⁻²	-2.16467277
AP3S2	-1.680125652	-3.161648517	2.6033676x10 ⁻²	-2.17129689
ACSS1	-1.532516668	-3.160296202	2.6110503x10 ⁻²	-2.17468719
LOC100289361	-1.310393197	-3.159105030	2.6148446x10 ⁻²	-2.17767283
HIST1H1C	-1.709763227	-3.158530845	2.6179795x10 ⁻²	-2.17911178
SAMD12	-1.690639195	-3.157528605	2.6213772x10 ⁻²	-2.18162310
APLN	-1.213196770	-3.154971168	2.6330497x10 ⁻²	-2.18802923
RHOBTB3	-1.120101936	-3.153885315	2.6398517x10 ⁻²	-2.19074830
SNX33	-1.387811453	-3.153022154	2.6441516x10 ⁻²	-2.19290934
CDC42BPG	-1.981457592	-3.148428105	2.6677665x10 ⁻²	-2.20440548
MIR5690	-2.399993545	-3.146795838	2.6776423x10 ⁻²	-2.20848775
UCMA	-2.949189443	-3.144194896	2.6936813x10 ⁻²	-2.21499016
ITGB3	-1.141286731	-3.143744999	2.6950679x10 ⁻²	-2.21611460
HSPA6	-1.821509311	-3.143376462	2.6968054x10 ⁻²	-2.21703562
SPG20OS	-1.302375316	-3.142930630	2.6972255x10 ⁻²	-2.21814974
MIR4308	-2.139552686	-3.137886944	2.7255798x10 ⁻²	-2.23074735
C22orf24	-1.840455265	-3.134732332	2.7421624x10 ⁻²	-2.23862071
HIST1H1E	-2.407477629	-3.128936624	2.77373x10 ⁻²	-2.25307390
TRH	-1.830900309	-3.128351536	2.7771401x10 ⁻²	-2.25453212
SOCS3	-1.455407785	-3.122586740	2.8031115x10 ⁻²	-2.26889136
CCDC96	-1.361358729	-3.121283939	2.8110142x10 ⁻²	-2.27213432
SH3BP5	-1.389692846	-3.120447037	2.8144493x10 ⁻²	-2.27421714
CXXC5	-1.077731530	-3.117791860	2.8307615x10 ⁻²	-2.28082302
PNP	-1.100334618	-3.110207863	2.8693163x10 ⁻²	-2.29967347
CNIH3	-1.091389957	-3.106206023	2.8943805x10 ⁻²	-2.30960952
SDHAP2	-1.209031137	-3.103036522	2.9131531x10 ⁻²	-2.31747370
GPBR	-1.058547331	-3.100766387	2.9264904x10 ⁻²	-2.32310350
GABRE	-2.071398066	-3.100203678	2.9284172x10 ⁻²	-2.32449861
BEST1	-1.058712287	-3.095154323	2.9612882x10 ⁻²	-2.33701076
HIST2H2AC	-1.632936075	-3.094456340	2.9658277x10 ⁻²	-2.33873941
C10orf35	-1.051362245	-3.091438920	2.9878607x10 ⁻²	-2.34620981
LOC100507118	-1.447537144	-3.088269499	2.9995392x10 ⁻²	-2.35405195
IGFLR1	-1.381429478	-3.086131393	3.0123444x10 ⁻²	-2.35933963
CYP4F11	-2.011159755	-3.085755122	3.0143686x10 ⁻²	-2.36026995
DNAJC27-AS1	-1.214416425	-3.085068613	3.0169284x10 ⁻²	-2.36196716
MIR324	-1.747083467	-3.082971901	3.0295887x10 ⁻²	-2.36714933
PLD4	-1.634883697	-3.081744853	3.0356917x10 ⁻²	-2.37018111
C8orf22	-1.613704334	-3.080927213	3.039295x10 ⁻²	-2.37220094
OR2H2	-1.689957566	-3.079779899	3.044574x10 ⁻²	-2.37503463
MIR4530	-1.681758691	-3.077394545	3.0562318x10 ⁻²	-2.38092411

SNORD82	-1.670839841	-3.076128496	3.0652413x10 ⁻²	-2.38404892
RTN4RL2	-1.527879089	-3.063807112	3.1467405x10 ⁻²	-2.41442045
PDE3B	-1.077449020	-3.063690706	3.1467405x10 ⁻²	-2.41470705
FST	-1.636461581	-3.057445110	3.191123x10 ⁻²	-2.43007426
MIR942	-1.137643358	-3.054612801	3.2113616x10 ⁻²	-2.43703700
MIR5188	-1.468158045	-3.054006192	3.214137x10 ⁻²	-2.43852774
ERBB3	-1.065155735	-3.053712899	3.2145421x10 ⁻²	-2.43924845
B3GNT4	-1.399002517	-3.046494210	3.2628798x10 ⁻²	-2.45697394
ZBTB16	-1.226920573	-3.041815557	3.2898455x10 ⁻²	-2.46844904
SNORA75	-1.841711639	-3.040145499	3.3001857x10 ⁻²	-2.47254257
KIF12	-1.177074374	-3.038941366	3.3075384x10 ⁻²	-2.47549322
ANGPTL7	-1.421035069	-3.037131469	3.319169x10 ⁻²	-2.47992696
CYP4B1	-2.834359763	-3.028903159	3.3727783x10 ⁻²	-2.50006409
C2orf70	-1.578637727	-3.028691244	3.3735894x10 ⁻²	-2.50058227
LOC100129794	-1.283482682	-3.028154412	3.3773078x10 ⁻²	-2.50189487
STRC	-1.524558653	-3.024334287	3.4040118x10 ⁻²	-2.51123137
TICAM1	-1.417467930	-3.020233957	3.4312763x10 ⁻²	-2.52124483
NINJ1	-1.026386223	-3.017228742	3.4510365x10 ⁻²	-2.52857872
SLCO4A1	-2.018174704	-3.013993652	3.4728649x10 ⁻²	-2.53646870
ENDOU	-1.280329714	-3.012293352	3.4818696x10 ⁻²	-2.54061348
DYRK3	-1.153776713	-3.010532687	3.4947842x10 ⁻²	-2.54490392
GALR3	-1.582604464	-3.006296230	3.5218373x10 ⁻²	-2.55522125
MIR92B	-1.340375959	-3.005073954	3.5300522x10 ⁻²	-2.55819632
CBWD6	-1.529292703	-2.999936981	3.5668085x10 ⁻²	-2.57069191
TMC4	-1.010023464	-2.993017116	3.6189438x10 ⁻²	-2.58750392
RADIL	-1.041923547	-2.993011099	3.6189438x10 ⁻²	-2.58751853
LOC339529	-1.717102193	-2.987696034	3.6544296x10 ⁻²	-2.60041564
C1orf87	-1.540192527	-2.985417013	3.6667211x10 ⁻²	-2.60594147
ZMAT4	-1.700794835	-2.982090804	3.6920645x10 ⁻²	-2.61400176
AMZ1	-1.148512460	-2.976490724	3.7286279x10 ⁻²	-2.62755989
NCMAP	-1.712197739	-2.976458099	3.7286279x10 ⁻²	-2.62763883
ABTB1	-1.102645495	-2.975201251	3.7367931x10 ⁻²	-2.63067959
ZNF844	-1.007397528	-2.975155677	3.7367931x10 ⁻²	-2.63078983
SNORD43	-1.886219311	-2.970525919	3.7685592x10 ⁻²	-2.64198396
OR13J1	-1.745875208	-2.964648062	3.8072462x10 ⁻²	-2.65618048
GCDH	-1.138226769	-2.961191817	3.8278618x10 ⁻²	-2.66452016
LOC100507346	-1.130111952	-2.960515964	3.8334831x10 ⁻²	-2.66615025
SH2D6	-1.180762988	-2.960294114	3.8345447x10 ⁻²	-2.66668528
TC2N	-1.609163401	-2.956333033	3.8639683x10 ⁻²	-2.67623398
EGFR-AS1	-1.430328910	-2.952981493	3.8921296x10 ⁻²	-2.68430717
LOC100506368	-1.412293105	-2.950176311	3.914831x10 ⁻²	-2.69105997
SBDS	-1.186617184	-2.949021432	3.9232454x10 ⁻²	-2.69383892
FXYP1	-1.021788227	-2.949014094	3.9232454x10 ⁻²	-2.69385657
LRFN5	-1.353611002	-2.946269754	3.9410792x10 ⁻²	-2.70045749

FAM91A2	-1.650113859	-2.941862596	3.9712463x10 ⁻²	-2.71105003
LOC100506795	-1.655905125	-2.941827630	3.9712463x10 ⁻²	-2.71113403
HID1	-1.949889961	-2.940506288	3.980858x10 ⁻²	-2.71430793
GALNT9	-1.535285886	-2.940297274	3.9811784x10 ⁻²	-2.71480991
LOC339894	-2.201832945	-2.938999200	3.9923098x10 ⁻²	-2.71792692
LINC00051	-1.611849637	-2.935858000	4.021587x10 ⁻²	-2.72546624
ANKRD20A11P	-1.682169898	-2.933646727	4.036588x10 ⁻²	-2.73077062
FN3K	-1.314503314	-2.933629365	4.036588x10 ⁻²	-2.73081226
NPAS1	-1.599795560	-2.933029262	4.0404994x10 ⁻²	-2.73225135
OR1L6	-1.613938063	-2.929945353	4.0658581x10 ⁻²	-2.73964391
LINC00311	-1.526021188	-2.927449023	4.0875433x10 ⁻²	-2.74562442
KSR1	-1.226978715	-2.923235523	4.1240915x10 ⁻²	-2.75571164
TBL1Y	-2.159276037	-2.920740330	4.1425999x10 ⁻²	-2.76168094
DUSP15	-1.273856870	-2.920718905	4.1425999x10 ⁻²	-2.76173218
LOC113230	-1.238826971	-2.919769924	4.1491588x10 ⁻²	-2.76400160
SNORD50A	-1.995832006	-2.914349266	4.1882607x10 ⁻²	-2.77695595
FAM92B	-1.627523940	-2.910456148	4.2172059x10 ⁻²	-2.78625051
CALCA	-1.928818715	-2.910191205	4.2188716x10 ⁻²	-2.78688276
DPY19L2P4	-1.556544277	-2.909792467	4.2220071x10 ⁻²	-2.78783423
TTC23L	-1.212646495	-2.903861256	4.2712777x10 ⁻²	-2.80197770
YPEL2	-1.047378523	-2.901689383	4.2916727x10 ⁻²	-2.80715220
TSSK6	-1.384550942	-2.900682529	4.3003922x10 ⁻²	-2.80955021
IL6	-1.689373231	-2.898734058	4.3146301x10 ⁻²	-2.81418939
LOC100129931	-1.429629013	-2.888760864	4.3981626x10 ⁻²	-2.83790428
EPB41L4B	-1.909033222	-2.888479596	4.3988177x10 ⁻²	-2.83857236
THEGL	-1.407503840	-2.887328264	4.4096456x10 ⁻²	-2.84130660
HIST1H2BB	-1.787345609	-2.886721737	4.4150605x10 ⁻²	-2.84274673
C4orf51	-1.343039826	-2.882999665	4.4500956x10 ⁻²	-2.85158024
TTLL9	-1.500045349	-2.881723526	4.4609529x10 ⁻²	-2.85460722
FEZF2	-1.394301210	-2.880035578	4.4777837x10 ⁻²	-2.85860971
SNORD35B	-1.425266878	-2.879143346	4.483221x10 ⁻²	-2.86072479
LRRC37A4P	-1.169659314	-2.877915994	4.4895609x10 ⁻²	-2.86363361
RGS9BP	-1.550779509	-2.877800255	4.4896127x10 ⁻²	-2.86390786
TEX21P	-1.275416425	-2.873851968	4.5252708x10 ⁻²	-2.87325975
TFAP4	-1.318382618	-2.872669814	4.5339128x10 ⁻²	-2.87605821
CCL28	-1.847253525	-2.872129972	4.5376403x10 ⁻²	-2.87733592
TIGD3	-1.347593154	-2.864309744	4.6090855x10 ⁻²	-2.89582789
LOC100288524	-1.215132439	-2.862460375	4.6219035x10 ⁻²	-2.90019631
SMG7-AS1	-1.453057853	-2.860019113	4.6471341x10 ⁻²	-2.90596010
STARD8	-1.421909408	-2.859040193	4.6562317x10 ⁻²	-2.90827044
LOC728024	-1.306271145	-2.858068336	4.6652617x10 ⁻²	-2.91056362
TIGD1	-1.037674245	-2.854899406	4.6903475x10 ⁻²	-2.91803754
TSPO2	-1.499660446	-2.853614459	4.7004218x10 ⁻²	-2.92106659
TRPM5	-1.656545551	-2.851301007	4.7204989x10 ⁻²	-2.92651797

LOC100505716	-1.310768555	-2.850326856	4.7266052x10 ⁻²	-2.92881261
DCXR	-1.324064740	-2.848884205	4.7405881x10 ⁻²	-2.93220989
SNORD114-17	-1.775954812	-2.838765452	4.8351722x10 ⁻²	-2.95600761
LOC100288069	-1.600465154	-2.838539360	4.8351722x10 ⁻²	-2.95653872
RNMTL1	-1.065774872	-2.832340121	4.8909593x10 ⁻²	-2.97109090
ADPGK-AS1	-1.219243067	-2.832264390	4.8909593x10 ⁻²	-2.97126855
ZNF556	-1.332002086	-2.830167205	4.9133649x10 ⁻²	-2.97618682
NRCAM	-1.393528683	-2.828274793	4.9330382x10 ⁻²	-2.98062286
DIRAS3	-1.031307531	-2.825876865	4.9524417x10 ⁻²	-2.98624115
CCL27	-1.379101283	-2.824067011	4.9658202x10 ⁻²	-2.99047958
FUT8-AS1	-1.499180308	-2.823828852	4.9672724x10 ⁻²	-2.99103718

adj.P.Val, adjusted P-value; FC, fold change.